

4. Emilio

Program Name: Emilio.java

Input File: emilio.dat

Emilio has been running almost daily to prepare for spring track. He has been keeping a daily log of the distances he runs and wants to know the average distances for his 10 best and 10 worst days. Emilio is friends with a couple of the UIL programmers and asked your team to help.

Input: First line will contain the number T of test cases with $1 \leq T \leq 15$. Each test case will start with a line that contains the number N of daily distances that follow ($20 \leq N \leq 100$) which is then followed by an unknown number of lines with unknown number of distances on each line, but still an overall total of N distances for the data set. Emilio has been pretty aggressive with his running but has also had some easy days. Individual distances will be between 3.0 and 10.0 and are rounded to one decimal place. He does not log days on which he did not run.

Output: Each test case will display two lines which start with the case number followed by a colon and a single space. The first line of each test case displays the average of his 10 longest runs and second line displays the average of his 10 shortest runs, both rounded to exactly one decimal place. Each test case will be followed by a line containing 6 dashes “-----”.

Sample input:

```
3
25
5.6 3.3 3.5 6.2 4.1 6.3 6.4
6.1 7.6 4.4 3.0 7.8 4.2
4.6 3.4 8.5 4.2 6.6 9.5 9.7 9.3 3.5 7.2
5.5 3.5
35
8.5
5.9 8.5 9.9 9.8 8.3 7.2 6.9
3.8 9.3 6.2 7.7
4.2 7.1 3.4 7.2 4.5 3.2 5.9
5.2 6.8 7.7
9.6 5.5 8.1 10.0
6.2 3.7 5.2 5.8 3.7 4.3 9.1 9.1
3.9
27
7.7 6.2 9.3 9.7 8.5 8.2 8.2 3.4
3.3 9.8 9.2 6.8 3.1 9.7 8.6 7.5
6.1 8.5 5.6 6.1 9.9 5.7 3.7 5.2
4.5 10.0
8.3
```

Sample output:

```
1: 7.9
1: 3.7
-----
2: 9.2
2: 4.0
-----
3: 9.3
3: 4.7
-----
```